

	Instruction	Count	Status signals				Configuration Values		
			Empty	Full	Nearly Empty	Nearly Full	Max Value	Watermarks	
								High	Low
202~	Initial condition	0	X	-	X	-	3	2	1
204~	Read&Increment	1	-	-	X	-	3	2	1
206~	Read&Increment	2	-	-	-	X	3	2	1
208~	Read&Increment	3	-	X	-	X	3	2	1
210~	Read&Increment	3	-	X	-	X	3	2	1
212~	Read&Decrement	2	-	-	-	X	3	2	1
214~	Read&Decrement	1	-	-	X	-	3	2	1

FIG. 1

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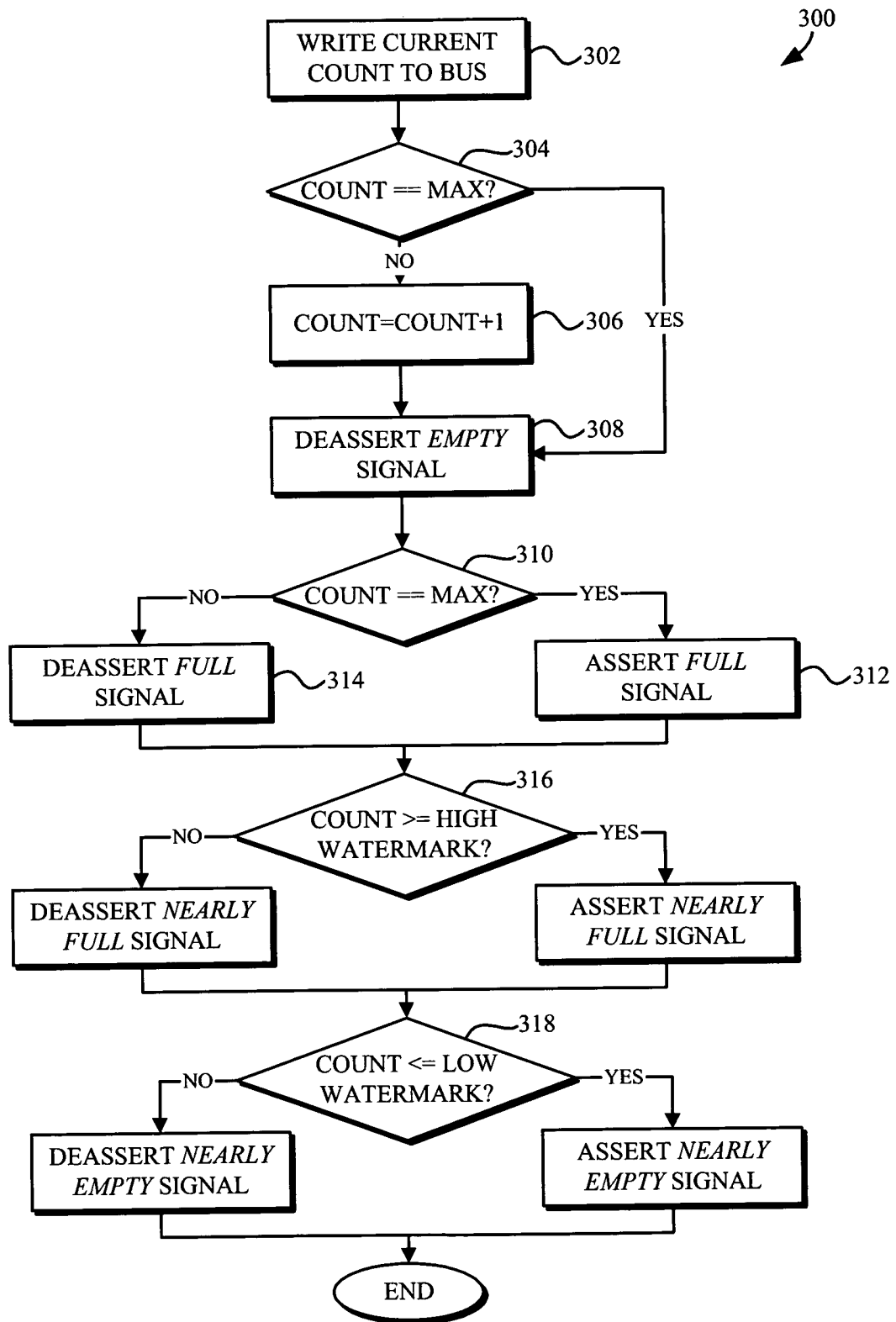


FIG. 2

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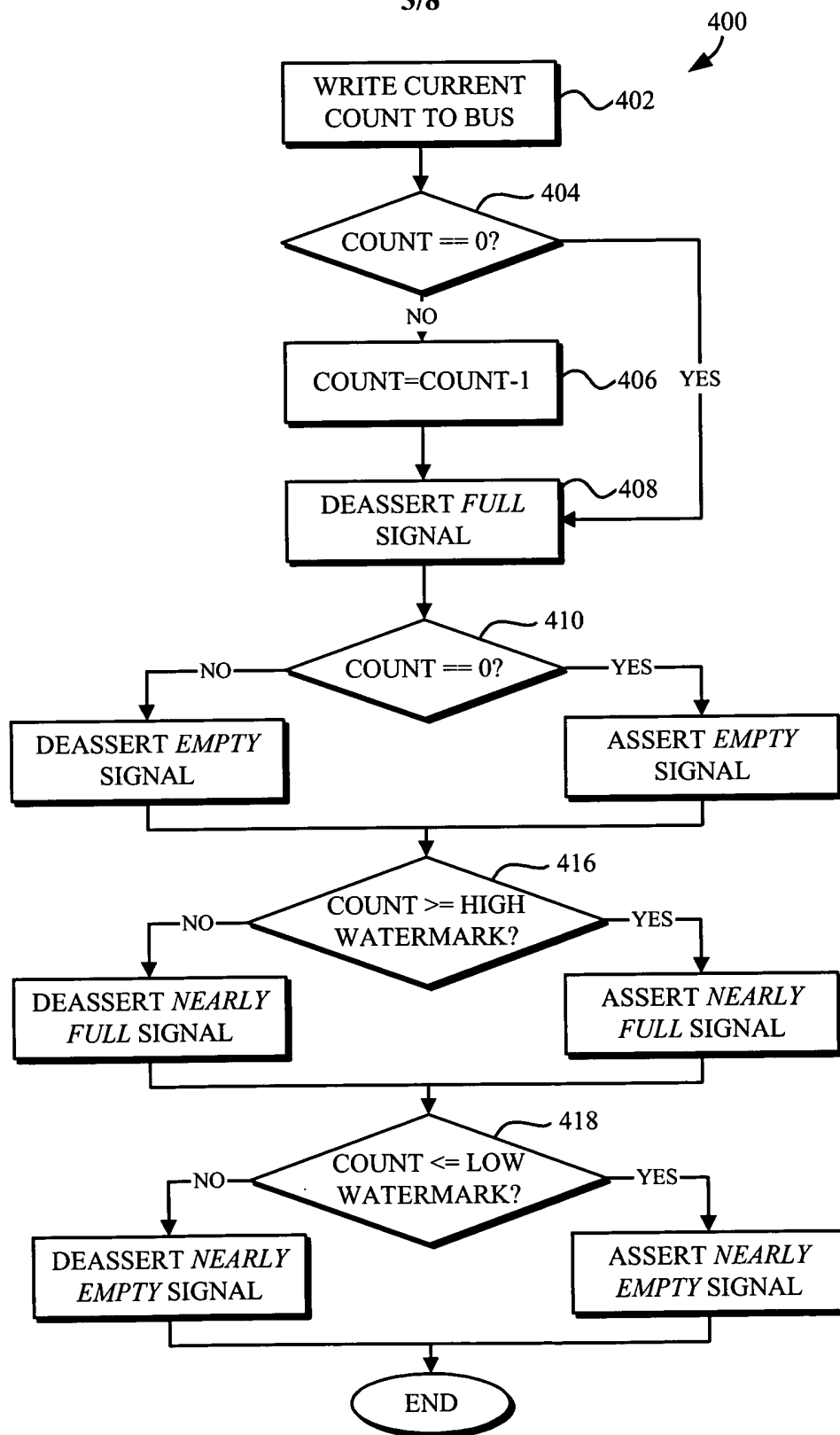


FIG. 3

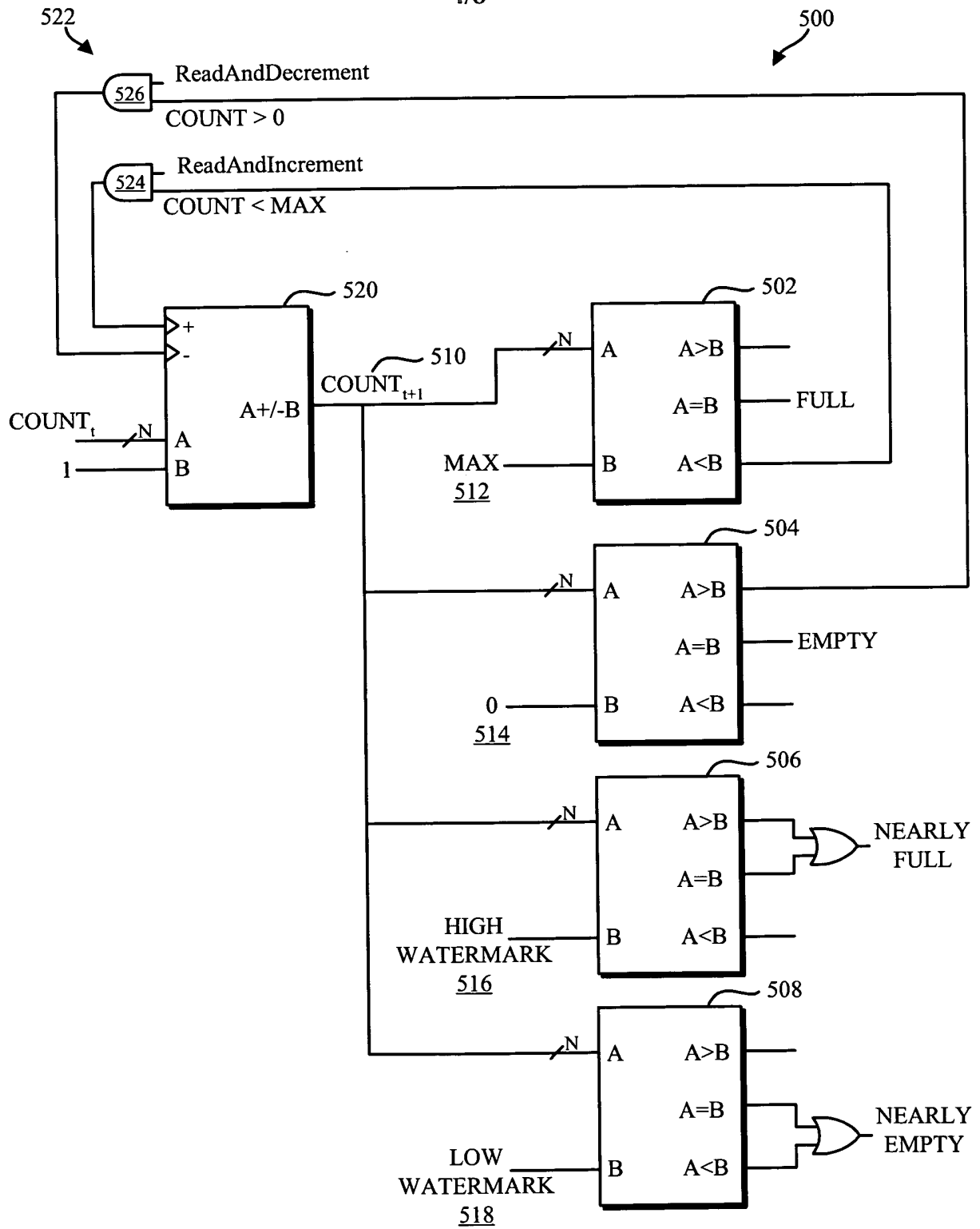
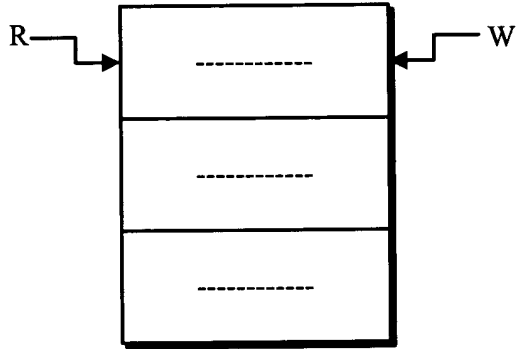
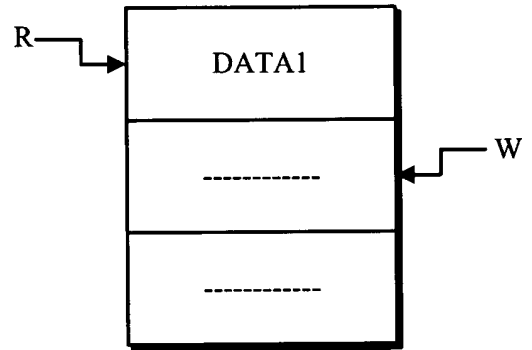


FIG. 4



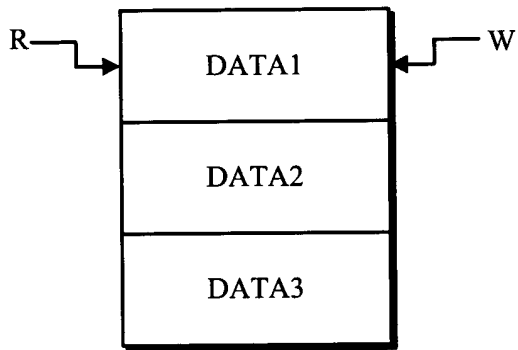
EMPTY

FIG. 5A



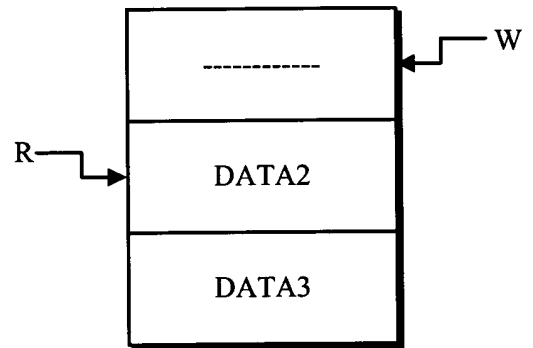
WRITE

FIG. 5B



FULL

FIG. 5C



READ

FIG. 5D

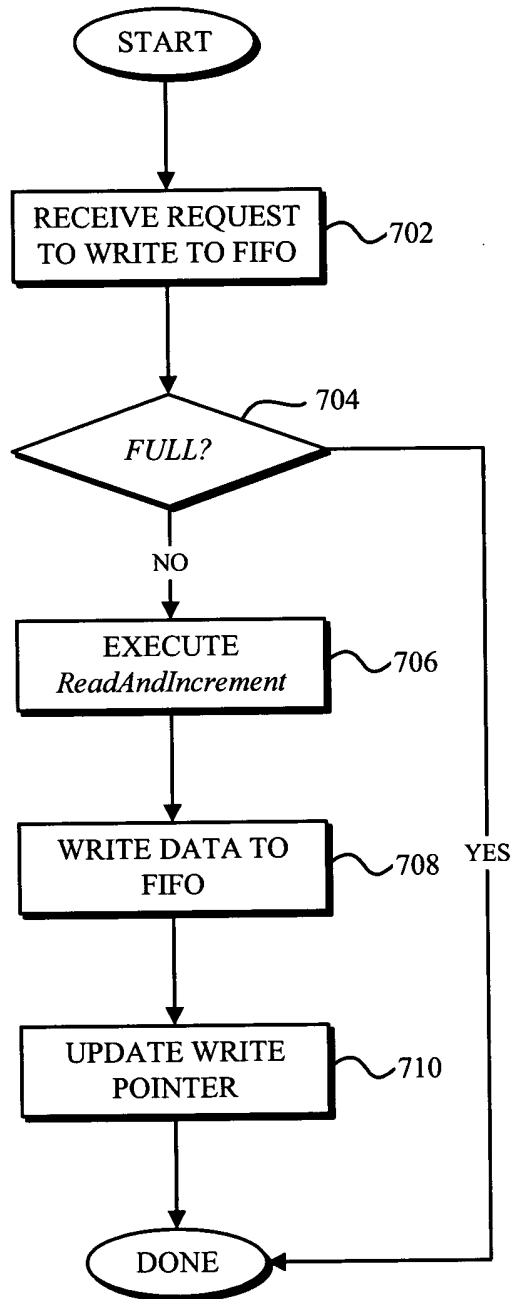


FIG. 6

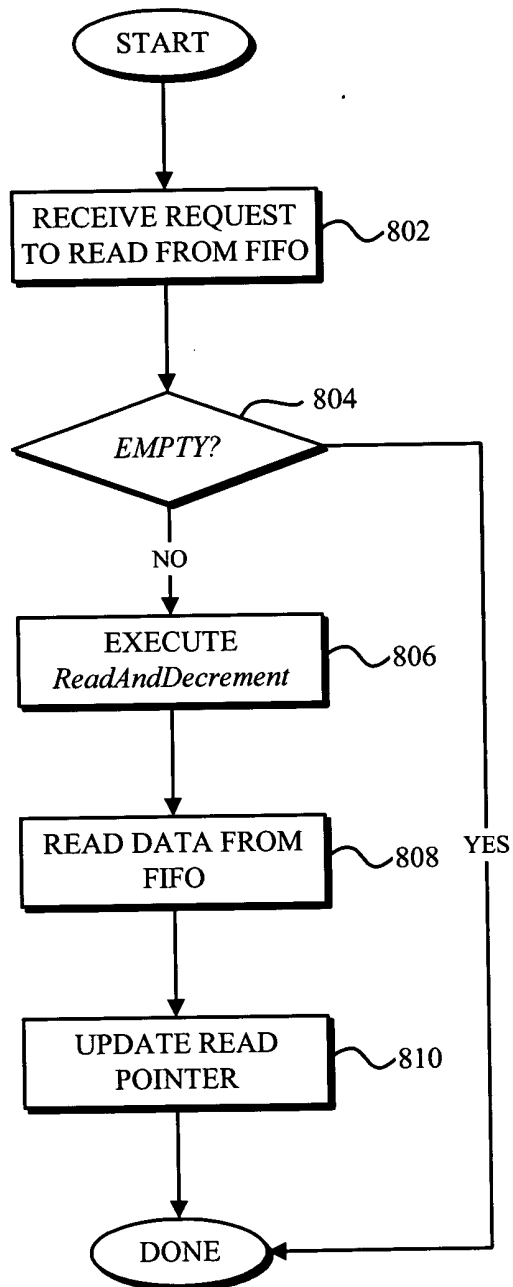


FIG. 7

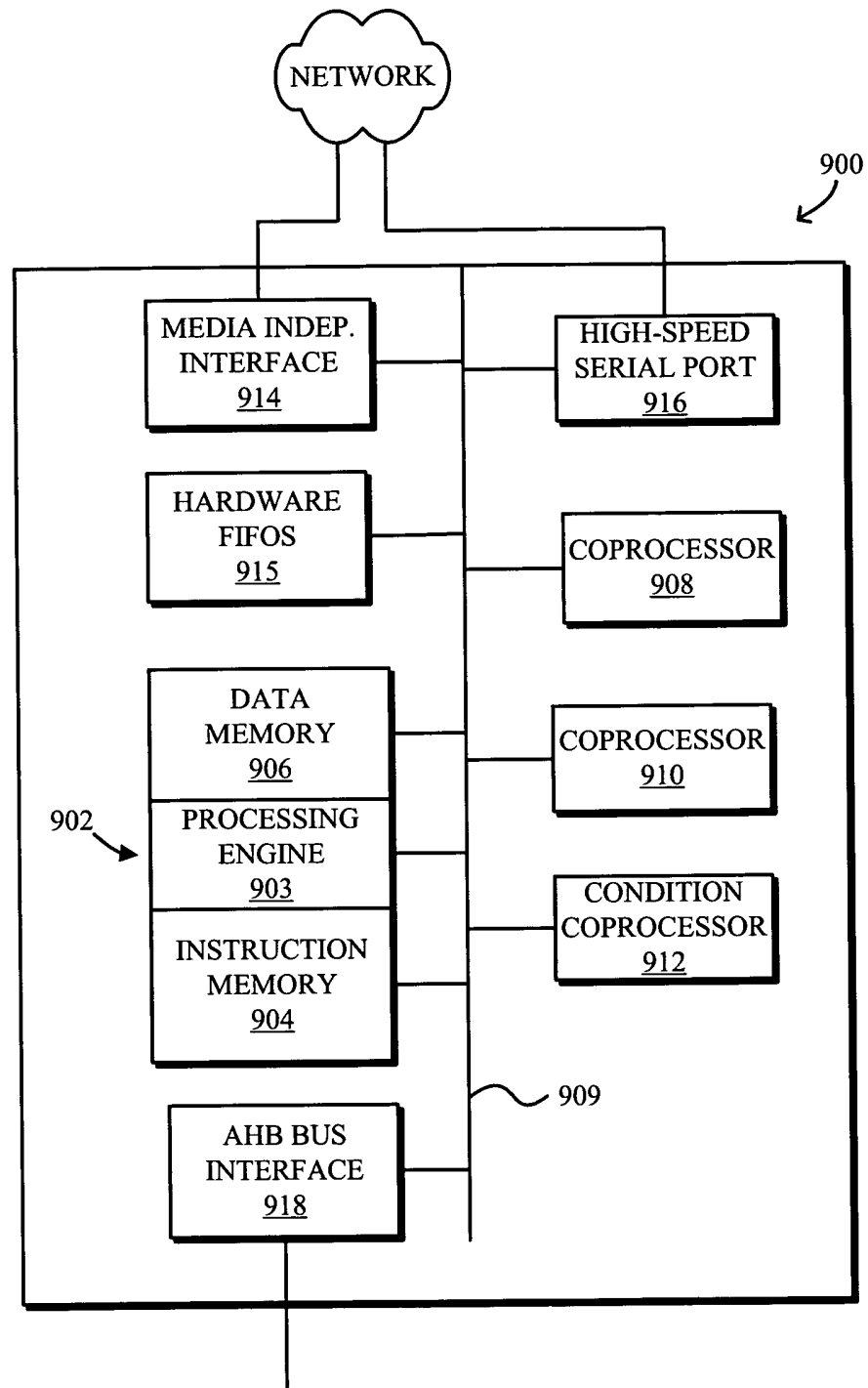


FIG. 8